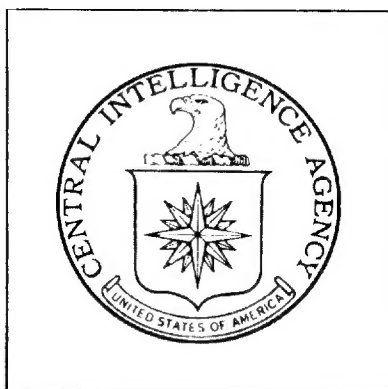


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DIRECTORATE OF  
INTELLIGENCE

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NIMA / DoD

# *Imagery Analysis Report*

Construction Status of Soviet  
Single Silo ICBM Sites



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November 1967

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## CONSTRUCTION STATUS OF SOVIET SINGLE SILO ICBM SITES

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## SUMMARY

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Coverage during the period [ ] has revealed an upward trend in the deployment of Type III-D small single silos. New impetus was given to this program, which had significantly slowed in the last [ ] by the initial deployment of a Type III-D group at the Teykovo ICBM Complex, by a large build-up of silo segments and construction material at the Perm ICBM Complex Support Facility, and by the resumption of deployment at the Tatishchevo ICBM Complex. The presence or absence of construction materials at the complex support facilities of the Drovyanaya and Gladkaya ICBM Complexes, where deployment is believed to have probably ceased, may be the prime indicator in determining whether this upward trend is a possible "third wave" or a "final spurt" in SS-11 deployment. The elapsed time since we have seen these complex support facilities well would actually have permitted the deployment of at least one full group. In any case, it is almost certain that 130 Type III-D starts will be attained in 1967, and 160 or more is considered probable. The latter figure would give the Soviets slightly over 1,000 operational ICBM launchers by mid-1969, assuming no deactivations.

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A departure from normal Type III-D construction techniques has been observed at Yedrovo, where a narrow, presently unroofed structure has been added at the tip of the appendage which serves as the silo personnel access. No similar construction has been seen at either of the test ranges, and the function of the structure remains undetermined. From excavations seen in this location at the most recent sites at Tatishchevo and Kozelsk, however, it is likely that it will be a feature common to all future starts.

The first complex command control site has been completed at Tatishchevo, and work has finally resumed on the complex command control site at Olovyannaya, which has been dormant [ ]. Work has also resumed at an accelerated rate on selected sites within the remaining five Type III-D groups which had experienced a pause in construction during this year. Recent single silo construction chronology also indicates that a [ ] differential is now the norm between the starting dates for the first and last sites begun within a given Type III-D launch group. This reduces the previously assessed [ ] to complete a group [ ].

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The first Type III-C launch group start in the Soviet Union since [ ] was discovered [ ] at Imeni Gastello, where the fifth launch group is now under construction. This new deployment strengthens the possibility that an additional group may yet be deployed at Zhangiz-Tobe and Aleysk.

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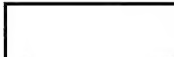
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Single Silo Construction Starts. . . . .

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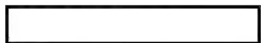
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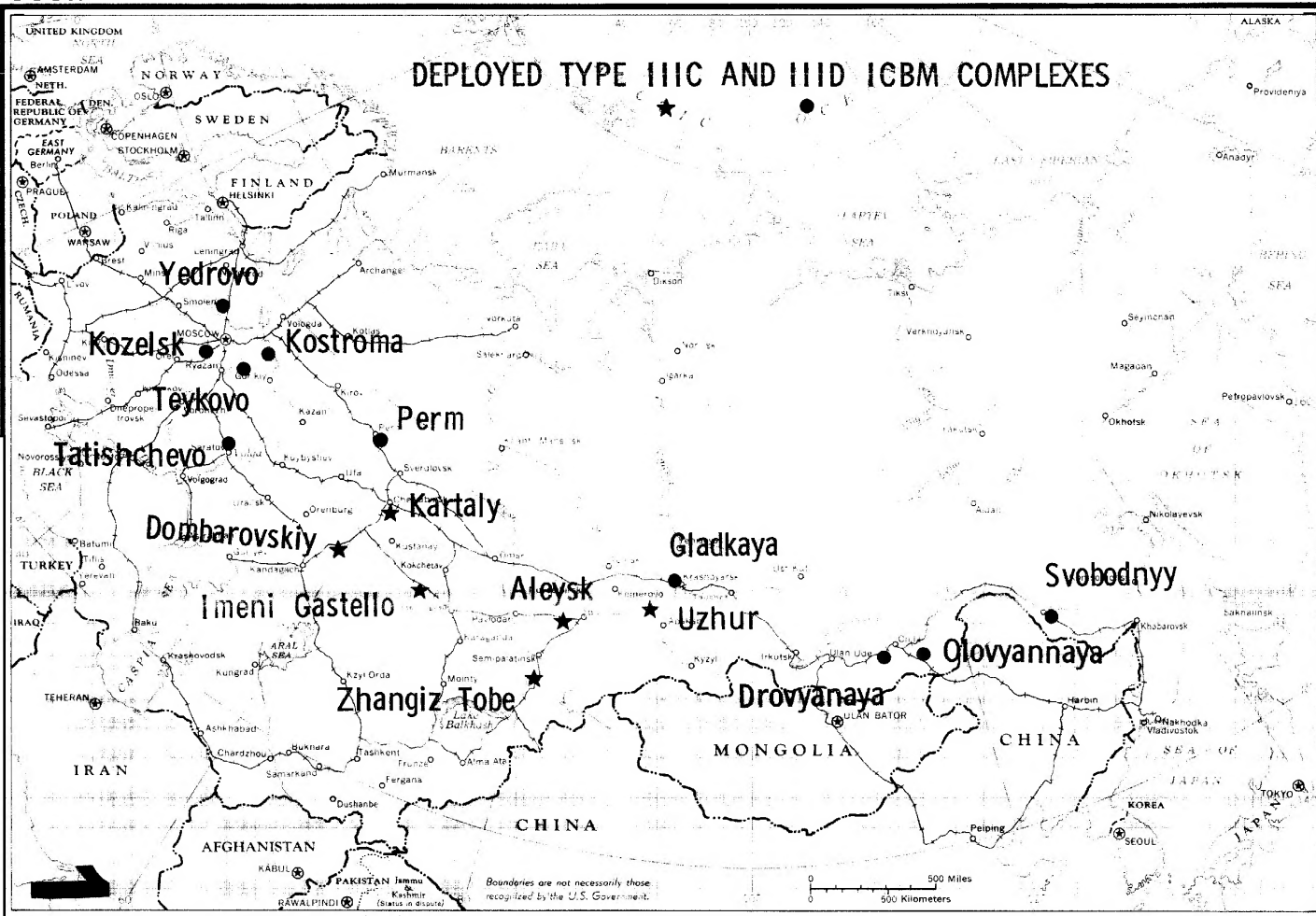
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# DEPLOYED TYPE III C AND III D ICBM COMPLEXES



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## INTRODUCTION

This report is part of a continuing series evaluating the Type III-D and Type III-C single silo deployment programs in the USSR. Since the last report, all single silo complexes were at least partially covered

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The report contains chronological tables of construction status, including estimated start dates and discovery missions, for each site in each complex. A table of construction starts for [ ] and a table of dates of all missions since [ ] are also included for reference purposes.

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An explanation of the construction stages is appended, as is a listing of all TDI numbers assigned [ ]. Eighteen active TDI designators are presently believed not to be valid sites by CIA/IAS.

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The cable trace study of all single silo complexes has been completed [ ] and is portrayed on the complex maps. Only definite connections between sites are indicated, and the location of the cabling is approximated.

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## TYPE III-D ICBM DEPLOYMENT

During the period [ ] 26 confirmed, 11 probable, four possible, and three suspect sites were newly identified. One probable and one possible site were confirmed, and one suspect and two possible sites were upgraded to probable. One site was abandoned. When all identified groups of small single silos are filled out, there will be a total of 570 silos (56 groups plus single silos at ten transfer points). There are now 345 Type III-D sites considered to be externally complete.

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Nine launch groups have been detected so far [ ]. This includes one newly identified launch group start at Kostroma, Kozelsk, Svobodnyy, and Tatishchevo, plus the deployment of at least one launch group at Teykovo, originally an SS-7 complex.\* Teykovo is the tenth deployed Type III-D complex and is the first such complex begun [ ]

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\* Two group starts at Yedrovo and one each at Kostroma and Kozelsk were previously identified.

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The stockpiling of construction materials at Perm began in the first [redacted] the same time period as the initial construction activity on the Type III-D sites begun at Teykovo. This is some 13 months after construction started at the four "second wave" complexes (Kostroma, Kozelsk, Svobodnyy, and Yedrovo) and [redacted] after construction began at the five "first wave" complexes (Olovyannaya, Gladkaya, Perm, Drovyanaya, and Tatishchevo).

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Presently, the significance of the activity at Perm and Teykovo plus the four new launch group starts at other III-D complexes cannot be ascertained with any certainty. However, two possibilities are a possible "third wave" in the SS-11 deployment program, which had significantly slowed [redacted] when only four launch groups were started, or a "final spurt" in construction similar to that which preceded the termination of the SS-7 deployment [redacted]. A more accurate assessment may be possible when good quality coverage is obtained on Gladkaya and Drovyanaya because deployment of Type III-D sites apparently ceased there [redacted]. These two complexes, together with several of the old SS-7 complexes, have not been covered by good-quality photography for a period [redacted].

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Identified Type III-D starts [redacted] now total 80 and with the filling out of existing groups there will be an additional 31 sites. The deployment of another group this year at Yedrovo and Kozelsk is considered almost certain, and it is likely that new groups will appear at Perm, Teykovo, and Olovyannaya.

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Work has resumed at the remaining five launch groups which witnessed a pause in construction during this year (Kozelsk I, Tatishchevo H and J, Svobodnyy L, and Kostroma J). The construction pace appears extremely rapid at selected sites within all five groups, and the groups should reach the previously projected completion dates on or near schedule. This accelerated construction rate is similar to that witnessed previously at the Olovyannaya I and K and Drovyanaya K groups, which had also experienced a pause.

Kozelsk

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A fifth launch group (K) was newly identified north of the J group. It presently consists of a confirmed control site as well as three probable and one possible site. This group started concurrently with the last sites in the J group.

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The complex support facility contains the largest amount of material, including prefabricated concrete segments, ever observed at an ICBM complex. Although only five sites have been identified in the K group, which was the last group started, the other five sites were probably started

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All sites in the G group were complete. Seven sites in the H group are now complete and the remaining three sites are probably complete since they were in Stage 9.

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The identification of Site J-3 (TDI 54) filled out the J group.

### Kostroma

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[redacted] revealed a fourth group (L) containing one site (TDI 47) in Stage 5. This group is situated between the I and J groups.

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The I group has six sites complete, and the other four are probably complete since they were in Stage 9 when last observed on good-quality photography [redacted]

At selected sites in the J group construction has accelerated; however, other sites within the group are progressing at a slower pace.

Ten sites, which include one possible and one suspect, are presently carried in the K group.

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### Svobodnyy

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A sixth group (N), containing one probable and two confirmed sites, has been newly identified east of the I group. This new group was deployed immediately after the fifth group, which appears to have fallen considerably behind schedule. The deployment of successive groups in this manner is also known to have occurred at Kozelsk and Kostroma [redacted]  
[redacted] In that same time period, two groups were deployed concurrently at Yedrovo.

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The I group was completed [redacted] Six sites are now complete in the J group, and the remaining four sites are probably complete since they were in Stage 9 when last observed [redacted]

The first two completions were confirmed in the K group.

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Work has resumed again on the L group at an accelerated pace. A canister is visible on the erector/loader at Site L-5 and two other sites in the group appear nearly complete.

Nine sites, including newly identified Site 73 on [ ] are presently carried in the M group. Suspect Site 60, which has not been observed [ ] may be the tenth site needed to fill out this group.

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The complex support facility contains a considerable quantity of material in open storage along the rail sidings. This amount of material is consistent with the deployment of the N group.

#### Yedrovo

Eight sites in the J group are complete, and the two remaining sites are probably complete since they were in Stage 9 [ ]

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It is expected that most of the K group will be complete on the next coverage since at least seven sites were in Stage 9 [ ]

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Construction has resumed on at least three or four sites in the L group. Apparently, the same selectivity and accelerated rate of construction is taking place here as was witnessed at other complexes. For example, Site L-10--the last site deployed in this group--appears nearly complete, whereas Site L-6 still remains in Stage 6A. Only a small amount of work has been accomplished on the control site, but construction of the control bunker is well advanced. A peculiar feature at Sites L-1 and L-5 is the presence of a long, narrow, unroofed structure at the end of the personnel access protrusion of the silo headworks. This structure is a little wider than the silo protrusion and is emplaced level with it. At Launch Site L-2, there is a narrow excavation in this position. The function of this structure is unknown, but it will probably be common to all future deployed sites.

With the discovery of Site 57 [ ] only one site remains undetected in the M group.

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A probable 'X' site was identified at the transfer point, on the basis of a newly observed fenced area. If this is a valid site, it will be the closest spacing yet observed between sites.

Considerable construction material and silo segments are observed in open storage at the complex support facility, indicating an almost certain intent to deploy at least one more group.

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Drovyanaya

All but three sites in the K group and the 'X' site at the rail-to-road transfer point are now externally complete.

No significant amount of material was observed in open storage at the complex support facility on poor-quality photographic coverage.

Olovyannaya

Sixteen additional sites are complete in the F, H, I, and J groups. Clouds, haze, and poor-quality photography preclude evaluation of those sites still under construction within these groups. It is almost certain, however, that the first seven groups deployed here are complete.

The first five completions in the K group were observed. A canister was seen in the silo at Site K-1 and an erector/loader was observed at Site K-4.

The five remaining sites in the L group have been identified, and construction is progressing at a normal rate. Previously, there was a [redacted] pause [redacted] the control site construction support facility was identified, but actual work did not begin on the control site silo or other silos in the group [redacted]

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Work has finally resumed on the 'X' site at the transfer point, with the access road now under construction. There has been no progress on the interferometer, however.

An L-shaped interferometer was never constructed within the enlarged fence at the nearly completed control Site K-1. There is evidence, based upon cessation of work on the interferometer legs (Sites 'X' and F-1) and ditching across one of the interferometer legs (Site E-1), that these three L-shaped interferometers have been abandoned. It cannot yet be ascertained if the interferometer at Site D-7 has been abandoned.

The complex support facility was covered by excellent-quality photography. The considerable amount of material, including prefabricated silo segments, observed in open storage along the rail sidings now indicates the probable deployment of a tenth group at this complex. The most likely location for another group would be to the southwest of the L group.

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Tatishchevo

The identification of the twelfth group (L), located immediately south of the A group, marks the first new group start here. This group contains all ten sites and work is progressing on all sites at a normal rate.

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The E, F, G, H, I, and K groups and at least seven sites in the J group are now complete, making a total of ten and possibly 11 completed launch groups. When work resumed on the H and J groups it was at a greatly accelerated rate.

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The confirmation of Site I-2 (TDI 116) and the abandonment of Site 106, the second site where construction has ceased, has finally allowed a precise grouping of all sites at this complex.

A narrow excavation is appearing at the end of the silo protrusion at those sites in the L group seen on large-scale coverage. It thus appears probable that the same structure observed at some Yedrovo sites will also be emplaced at sites within this group.

The 'X' site is complete after being under construction. This is the first complex command control center to be completed at a Type III-C or Type III-D complex.

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Perm

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All known sites, except the 'X' site at the transfer point, are complete.

Gladkaya

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There has been no interpretable photography over the G group when it was evaluated to be in Stage 9. If progress has been normal, the group undoubtedly has been complete. The I group is now complete, and all sites within the J group are probably

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complete. It is almost certain that no more than five sites ('X', K-4, K-5, K-9, and K-10) remain uncompleted at this complex. Lack of good coverage of the complex support facility precludes a determination of an accumulation of construction materials similar to that at Perm.

### Leykovo

The first deployment of Type III-D sites is newly identified at Leykovo, originally an SS-7 complex. Currently, only seven Type III-D sites--three confirmed, two probable, and two possible--are known.

The presence of large numbers of silo segments--an indicator which led to the discovery of deployment here--and considerable other material in open storage at the complex support facility indicates further deployment.

### TYPE III-C DEPLOYMENT

During this period four sites were newly identified. This leaves four sites remaining to be identified, two at Imeni Gastello and two at Kartaly, to fill out all existing groups. When these four are identified, it will bring the total Type III-C silos to 186 (20 groups plus single sites at six transfer points). There are now 112 large single silos carried as externally complete.

The deployment of a fifth launch group (E) at Imeni Gastello in [redacted] represents the first Type III-C group start since the start of the Kartaly E group [redacted] Zhangiz-Tobe Site D-3 was the last previous Type III-C start identified [redacted]

All Type III-C groups presently under construction are two to six and one half months behind their predicted schedules, except the Dombarovskiy F and Imeni Gastello E groups, which appear on or near construction schedule. Undoubtedly, the pause in construction on the Type III-C groups observed earlier this year caused these groups to fall behind schedule. A normal rate of construction has resumed at all of these groups in contrast to the accelerated pace at the Type III-D groups, where there was a similar pause in construction this year.

There are several anomalies about the control sites at the Dombarovskiy F, Imeni Gastello D, and Kartaly D groups which make it virtually certain that no L-shaped interferometers will be emplaced there. The control bunker is not at the usual 45 degree angle to the headworks, and there is no excavation

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at the expected location of the instrumentation building at the vertex of the missing interferometer legs. If the legs were subsequently to appear in their proper relationship to the control building, there would be no room within the fence for the legs of the L, nor would the legs be aligned on the proper azimuth. Although the control bunker at Changiz-Tobe Control Site D-1 is at a normal 45-degree angle to the site, it is certain that no L-shaped interferometer will be employed at this group for much the same reasons given for the three sites above. At Aleysk Control Site B-1, the L-shaped interferometer has been abandoned and the fence line repositioned.

At the Imeni Gastello D group, cable ditching now connects the control site with all of the launch sites. This cable emplacement is some six months ahead of the normal schedule; the cabling usually is laid after the sites are completed, and rarely before Stage 7. Generally, the cabling is laid in three separate and distinct phases at a Type III-C deployed group. The first phase is the connection of the control site with the other sites within the launch group, the intermediate phase consists of connecting the individual sites within the group, and the final phase is cable interconnection between launch groups. Cabling at Type III-D groups is characterized by only two phases. The first phase includes cabling from the control site to other sites and between sites within a group concurrently, and the second phase is the cable interconnection between launch groups.

Aleysk

Five sites in the B group are now complete, and the remaining site is undoubtedly complete since it was in Stage 7 when last seen. The L-shaped interferometer at Control Site B-1 has been abandoned and the fence line repositioned.

Good coverage of the entire C group shows the headworks actively under construction. The estimated completion date for the last site (C-3) in this group would be early if work progresses at a normal rate. This will be about two months behind the previously predicted schedule.

Sufficient material to support the construction activity at Launch Group C was apparent in open storage at the complex support facility on

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Dombarovskiy

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Work has resumed on the E group, which was identifiable only, and Site 31 has been identified as the control site.

The F group appears on or near schedule and should be complete early in the second quarter of 1968. The same anomalies occur at Control Site F-1 as are observed at the control sites at Imeni Castello and Kartaly D groups. In addition, the control bunker at Site F-1, constructed much earlier than usual, is almost completely roofed, and the cruciform building adjacent to the silo structure is also under construction, although no walls for the headworks are apparent.

Imeni Castello

A fifth launch group (E), containing four launch sites, was newly identified north of the C group. Construction started on this group and is progressing at a normal pace. It is most likely that the other two sites in this group will be constructed within the immediate vicinity of 51-12N 65-47E and 51-18N 65-42E, if normal spacing is followed.

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The D group, started at the same time as the D group at Kartaly, is four to six and one-half months behind schedule. If work progresses at a normal rate, these sites will not be completed until late in the first quarter of 1968, after 18 to 19 months of construction.

Site D-1 (TDI 22) has been identified as the control site for the D group. The control bunker for Launch Site D-1 has been constructed in the same manner as that for the Dombarovskiy F group, and it appears certain that there will be no L-shaped interferometer employed here.

Cable ditching already connects all the sites within the D group though normally the cabling is not installed until the sites have been completed.

A considerable amount of material is in open storage at the complex support facility. Additional buildings are under construction here and at the transfer point.

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Kartaly

The entire C group is now complete

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It is certain that the D group will not have an L-shaped interferometer for the same reasons cited for Dombarovskiy F and Imeni Gastello D groups.

Work has resumed on two of the sites in the E group, and the presence of cranes in the excavation at the other two sites indicates that work will resume on them. Apparently, there was only a slight delay on Site E-1, whereas the other sites are two to two and one-half months behind schedule. Site 32 (E-1) has been identified as the control site, making it possible to predict with a high degree of confidence that the other two sites in the group will be located south of the four known sites. If normal spacing is followed, they should appear within a small radius near points 52-39N 60-16E and 52-39N 60-25E. There was no activity discernible in the vicinity of these coordinates

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Uzhur

Coverage during this period has been largely uninterpretable. Of significance has been the completion of the fifth site in the D group, the completion of the first site in the E group, and the identification of Site 43 as the control site for the G group. All sites in the D group are certainly complete by now. The possible missile activity observed at Site E-3 indicates the likelihood that all sites in this group are also complete. The F and G groups, while not seen clearly, give the impression of being several months behind schedule.

Zhangiz-Tobe

Launch site A-6 is still undergoing extensive refurbishment, possibly as a result of fire damage. The new silo liner has not yet been emplaced and an excavation has been dug beside the headworks. The overburden has been removed to the level of the buried tanks, partially revealing them.

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Five sites in the C group are complete, and the other site is undoubtedly complete, since it was in Stage 7 when last observed in

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Two of the launch sites observed in the D group are five to six months behind schedule, but Launch Site D-2, one of the last two started after an abnormal delay, should be completed in the normal 13-month span. The group as a whole is expected to be complete near the middle of the first quarter of 1968.

The control bunker for Launch Site D-1 is in a normal 45-degree relationship to the silo, but there is no excavation for the instrumentation building of an L-shaped interferometer. The fence is positioned in such a manner that there would not be sufficient room for the legs, thus precluding the emplacement of an interferometer here.

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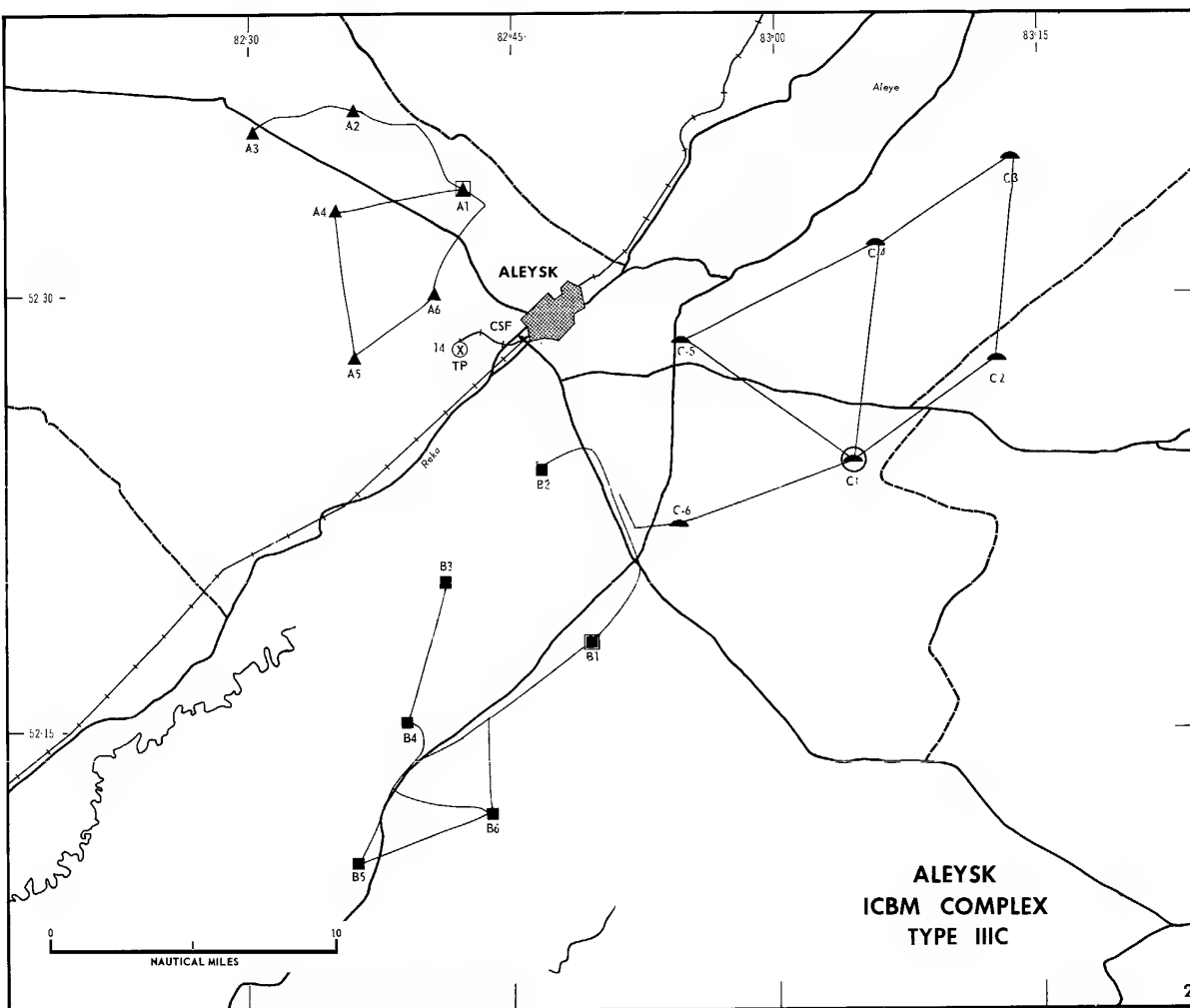
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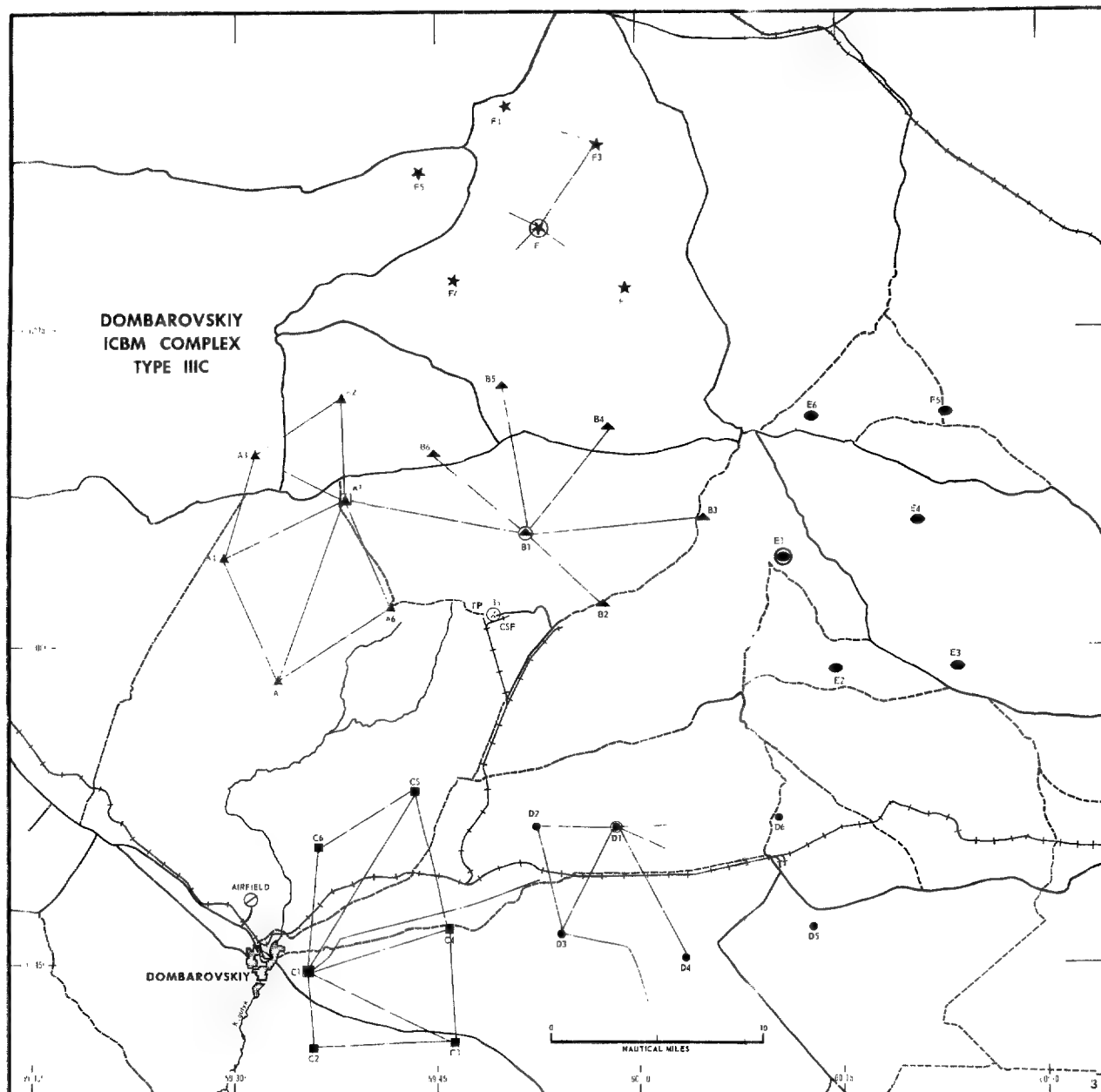
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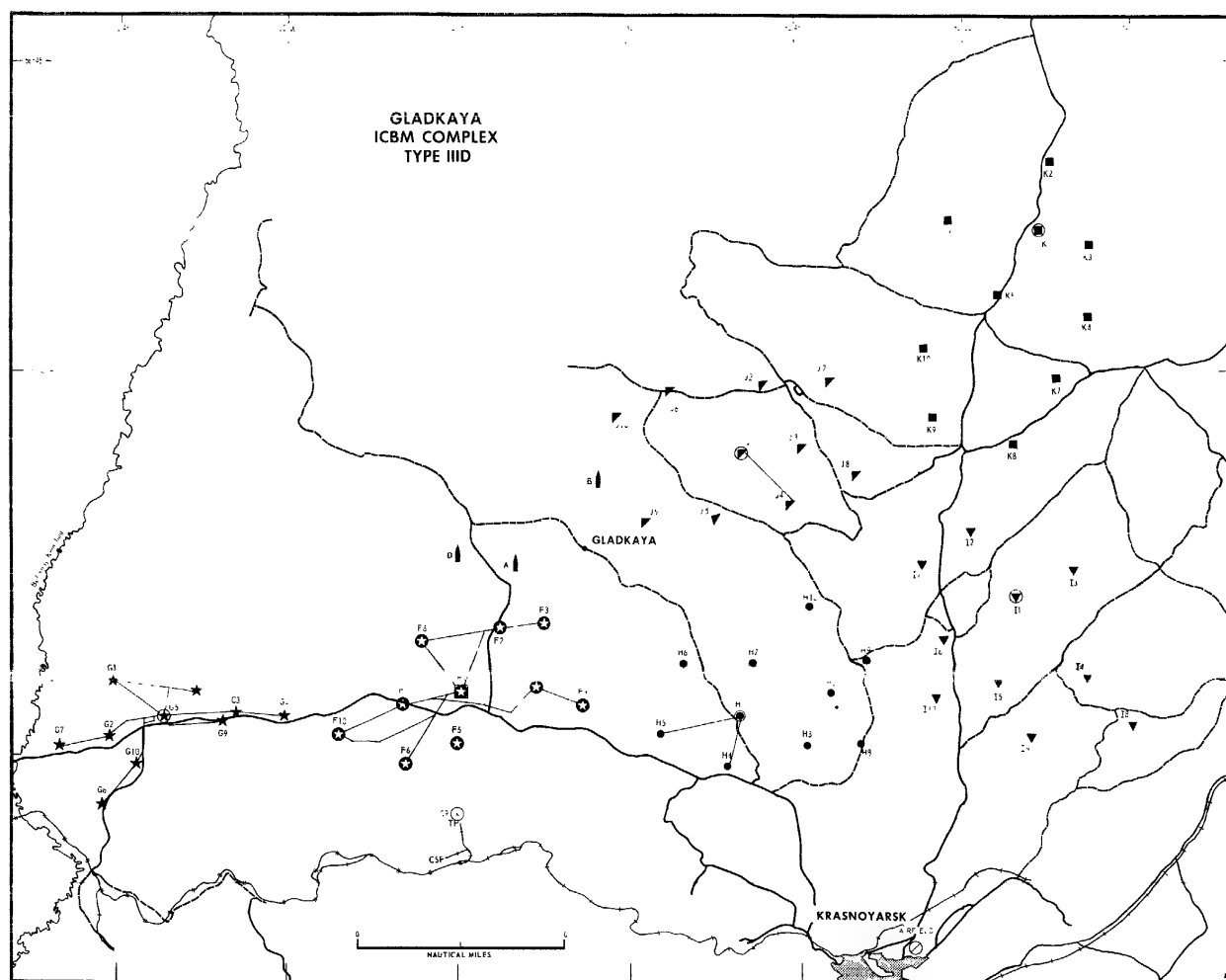




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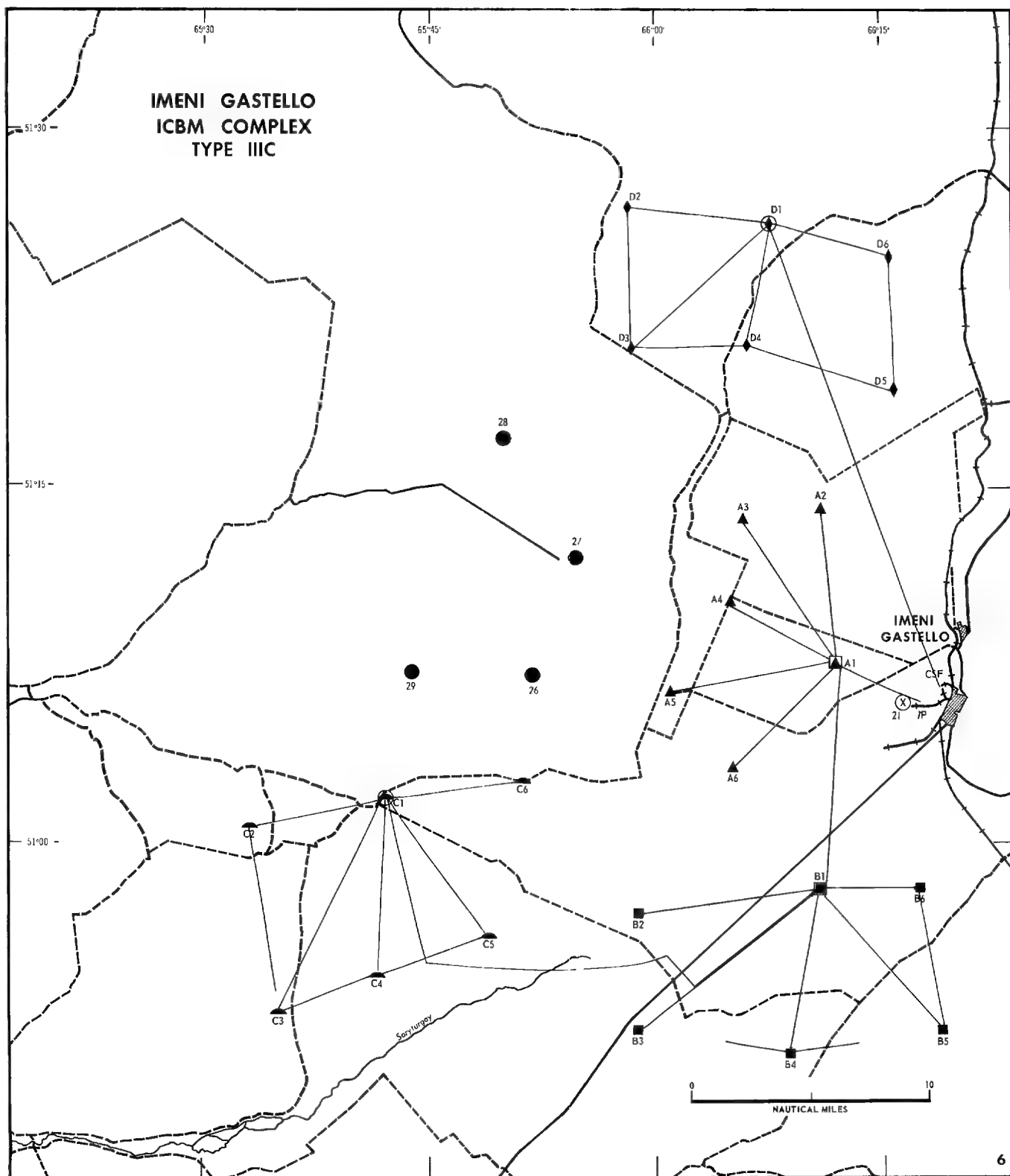
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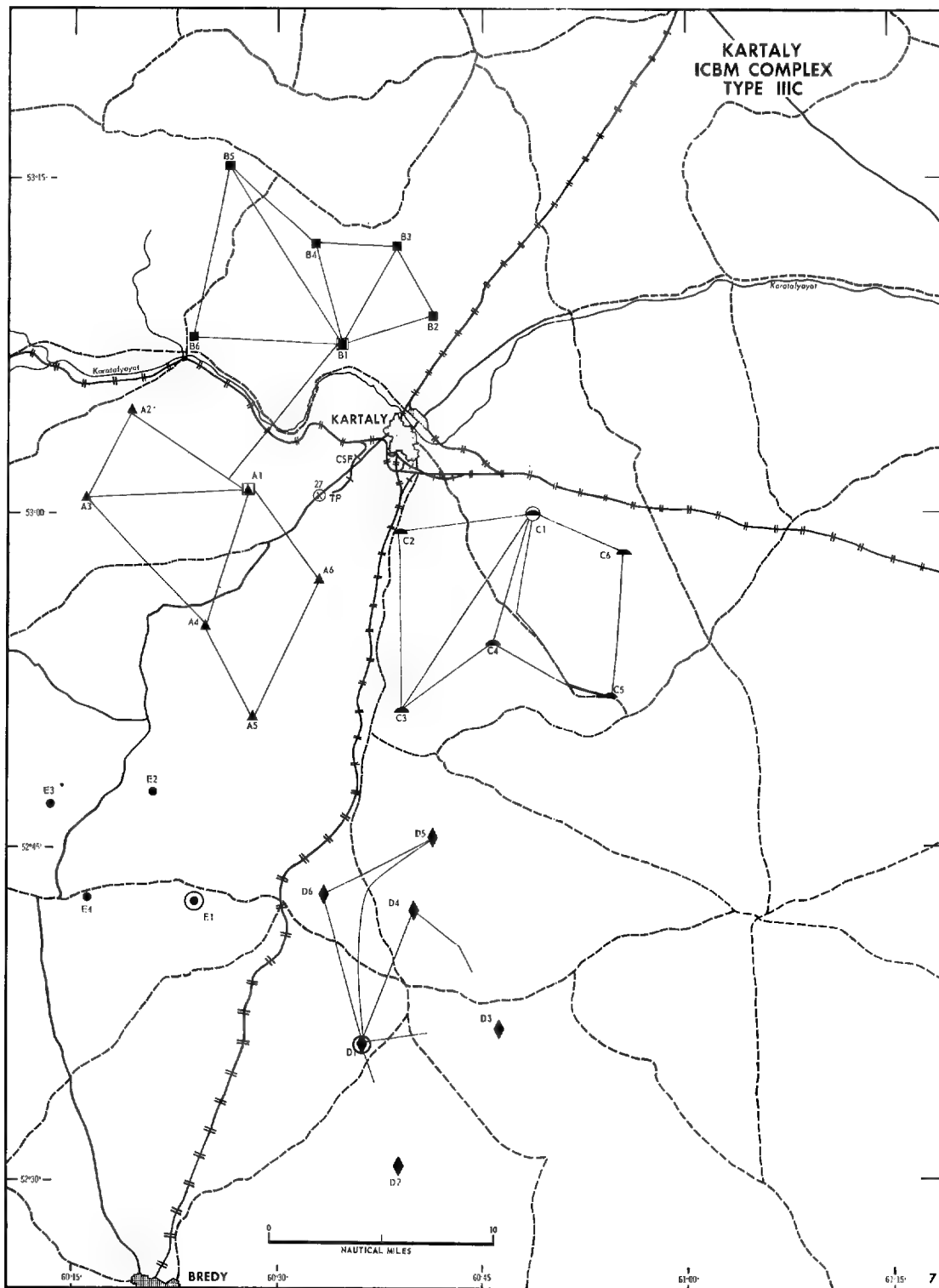
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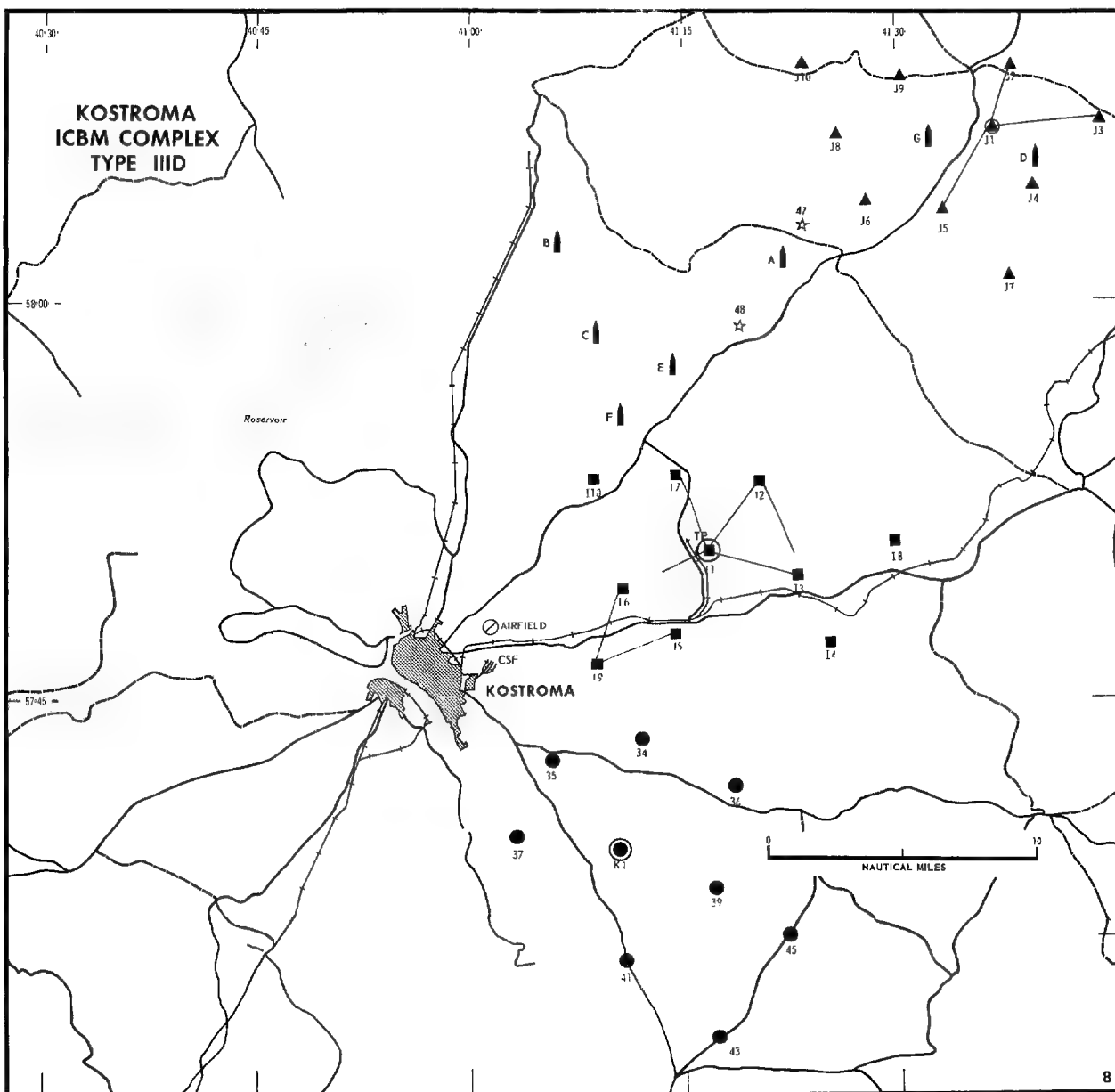
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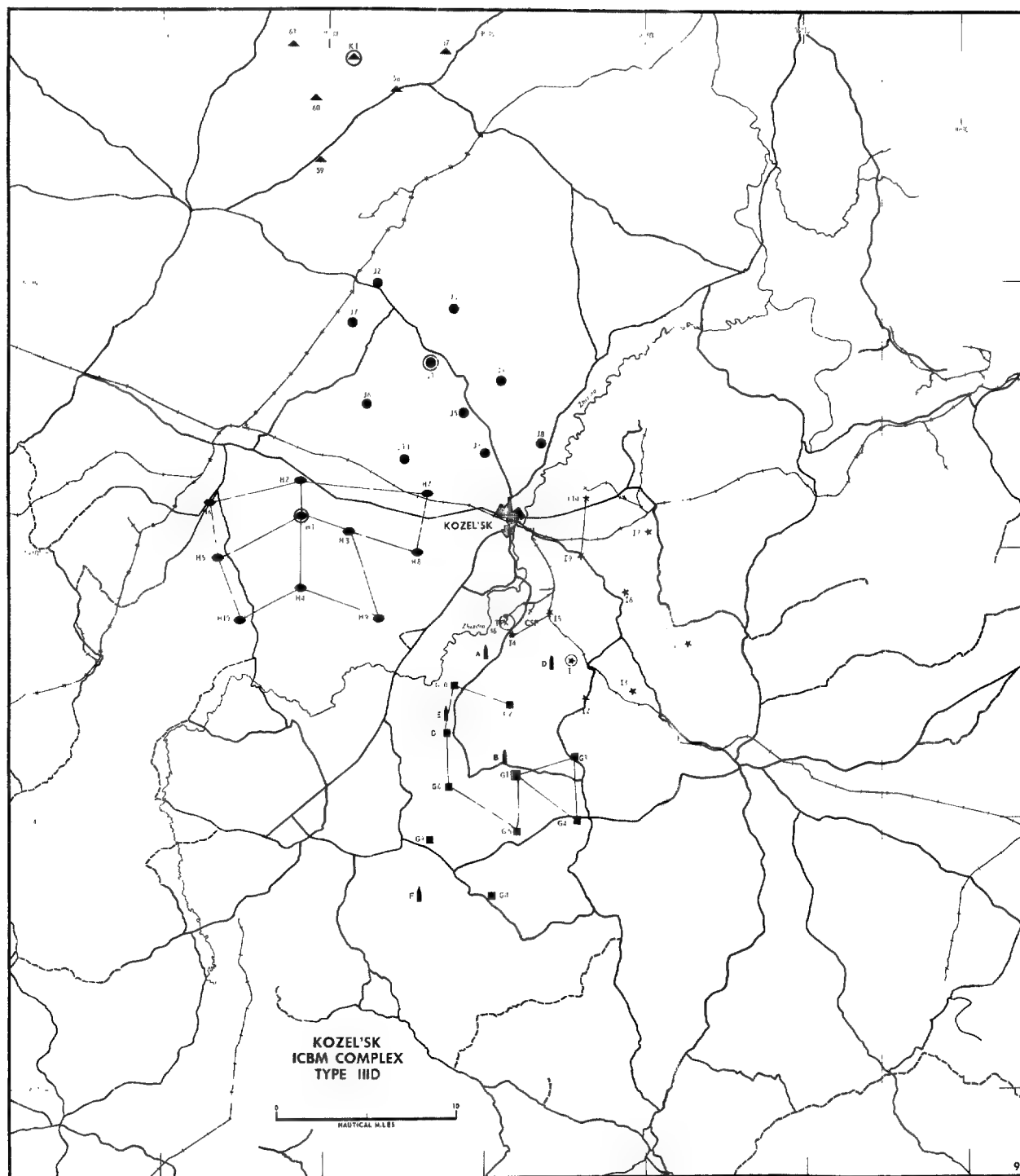
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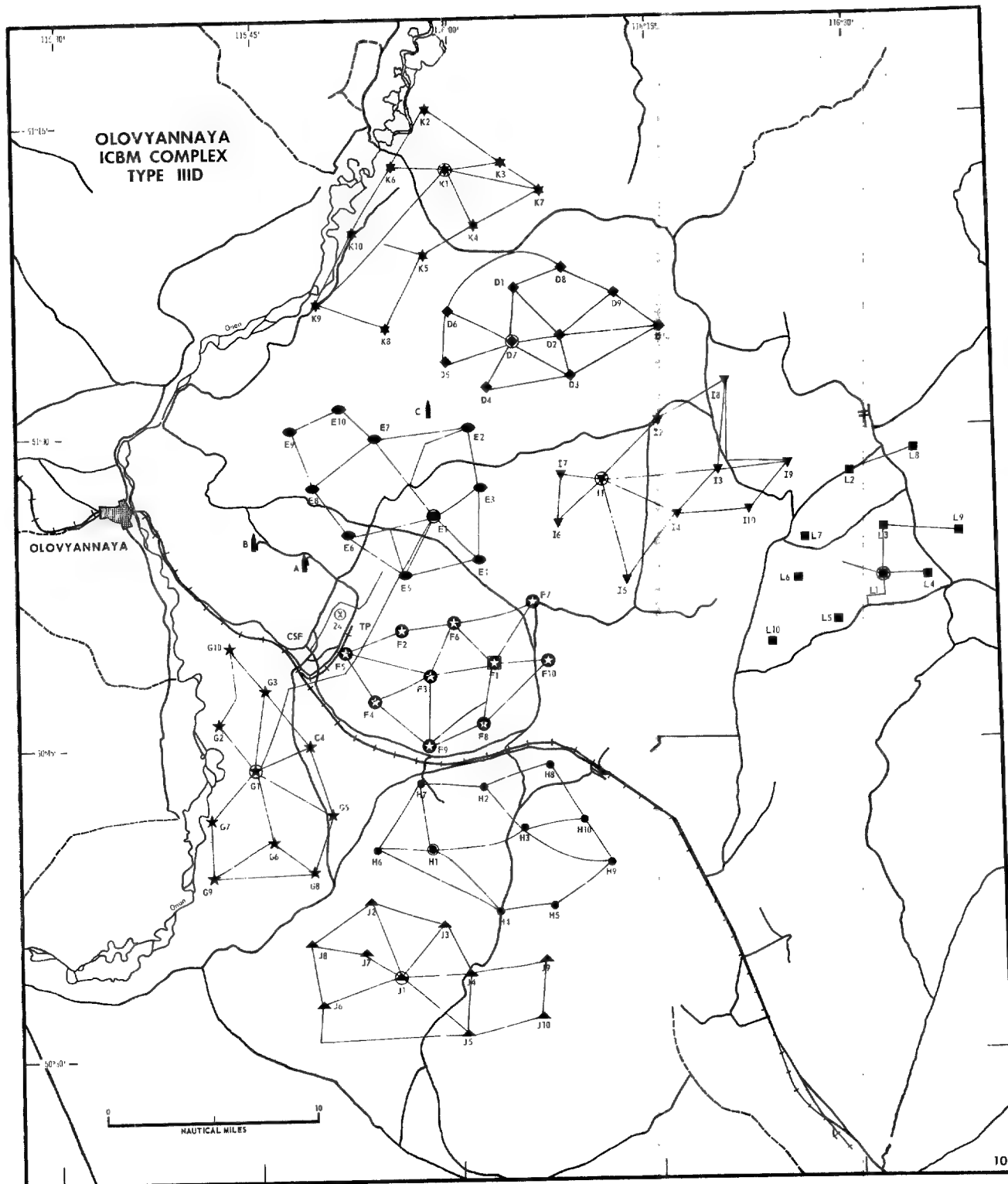
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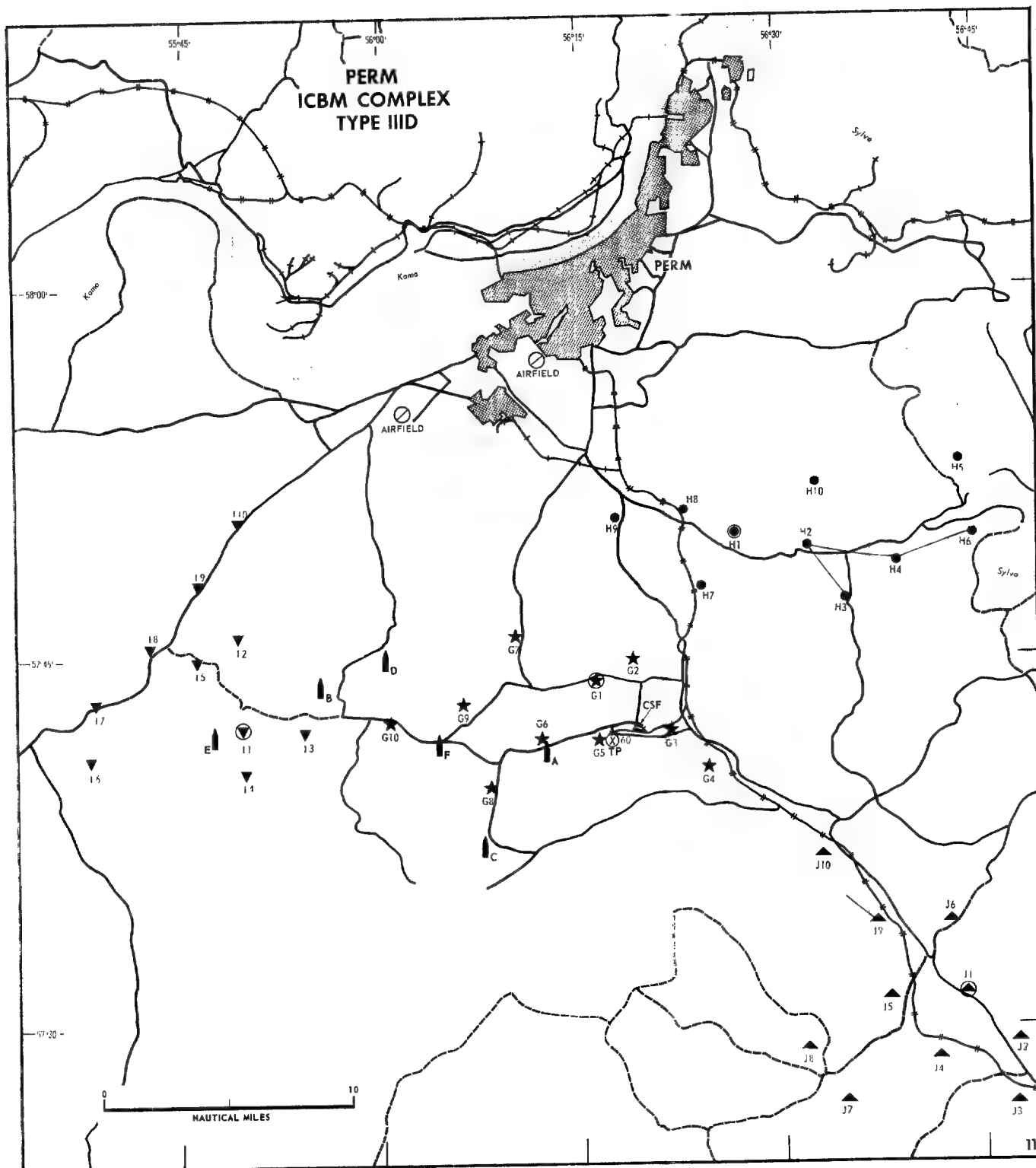
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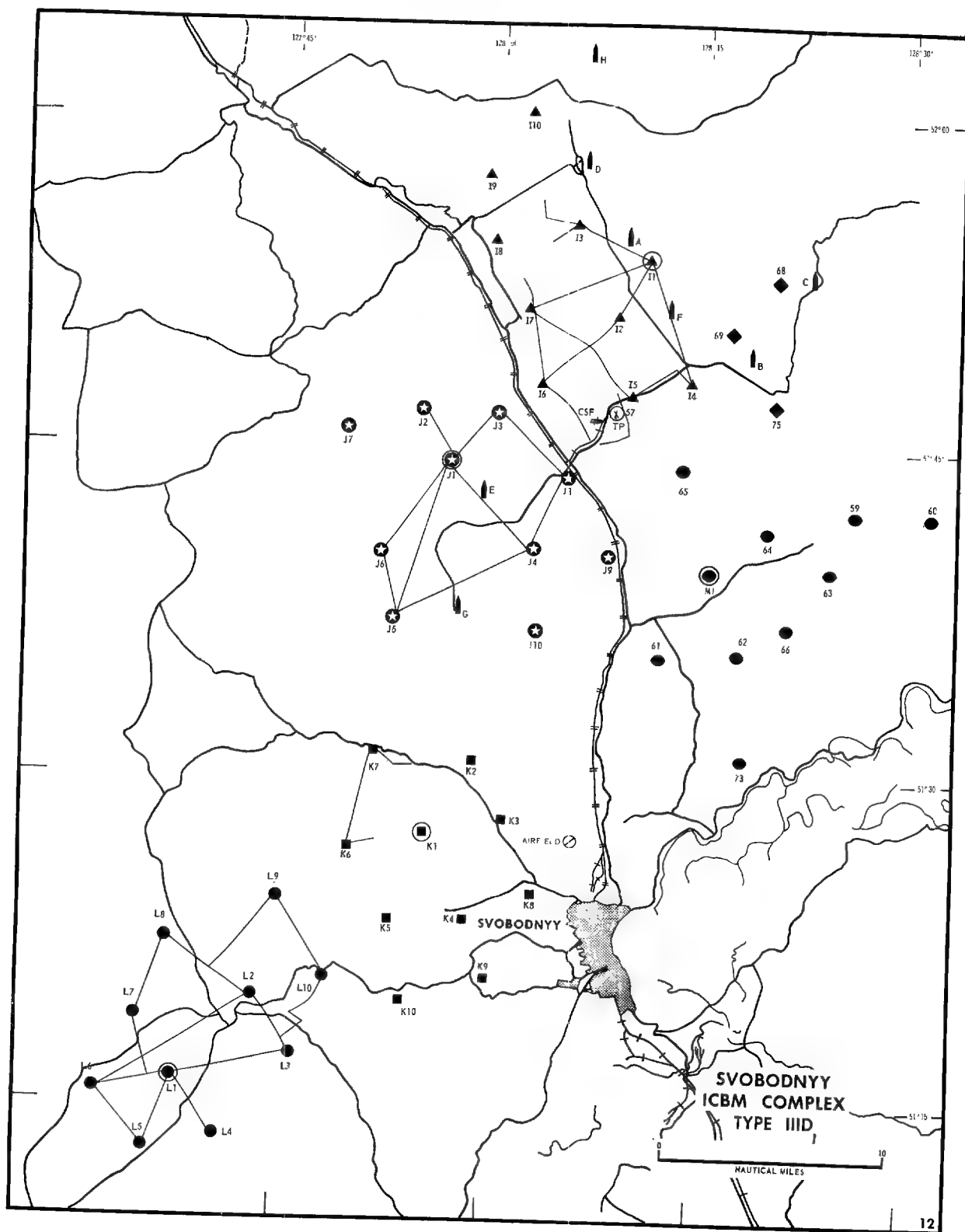
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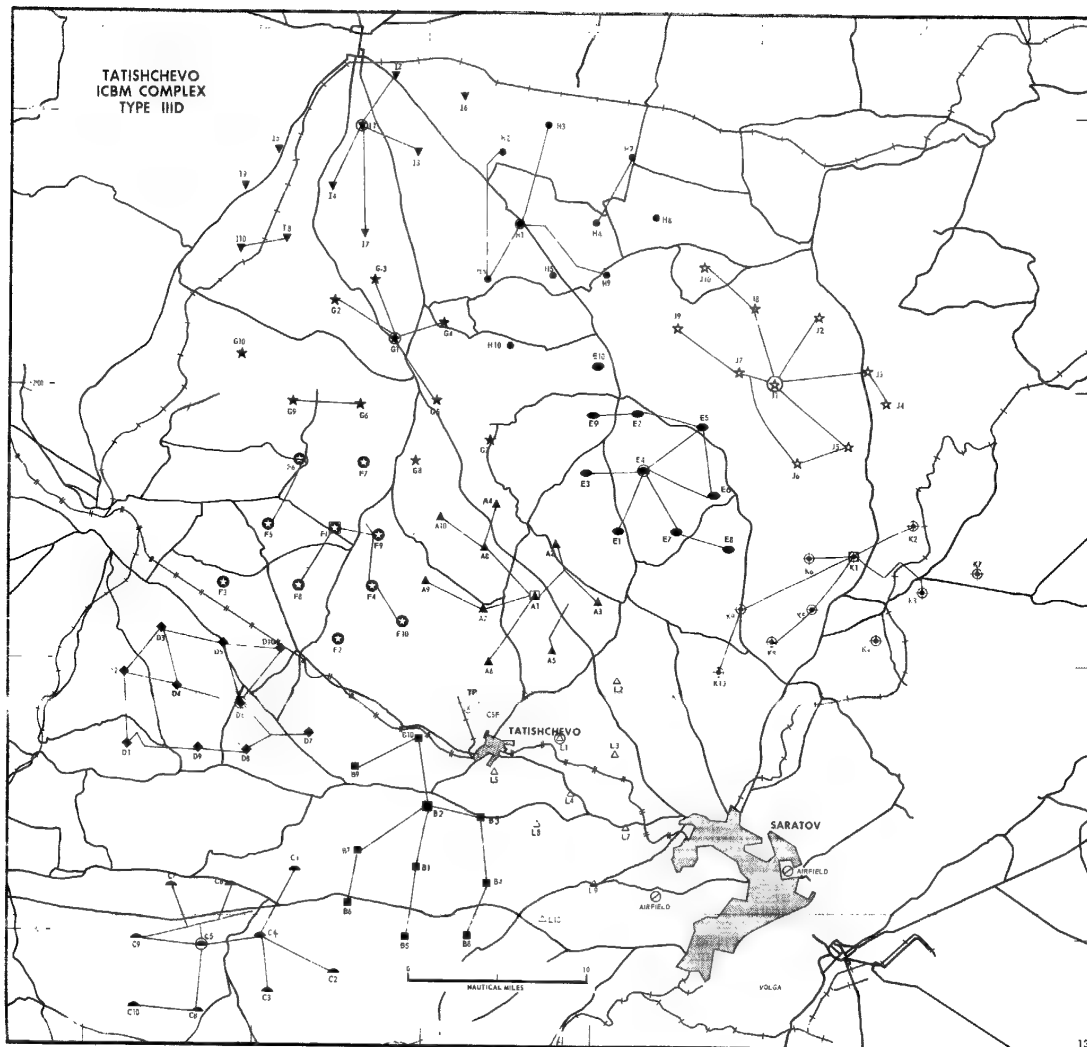
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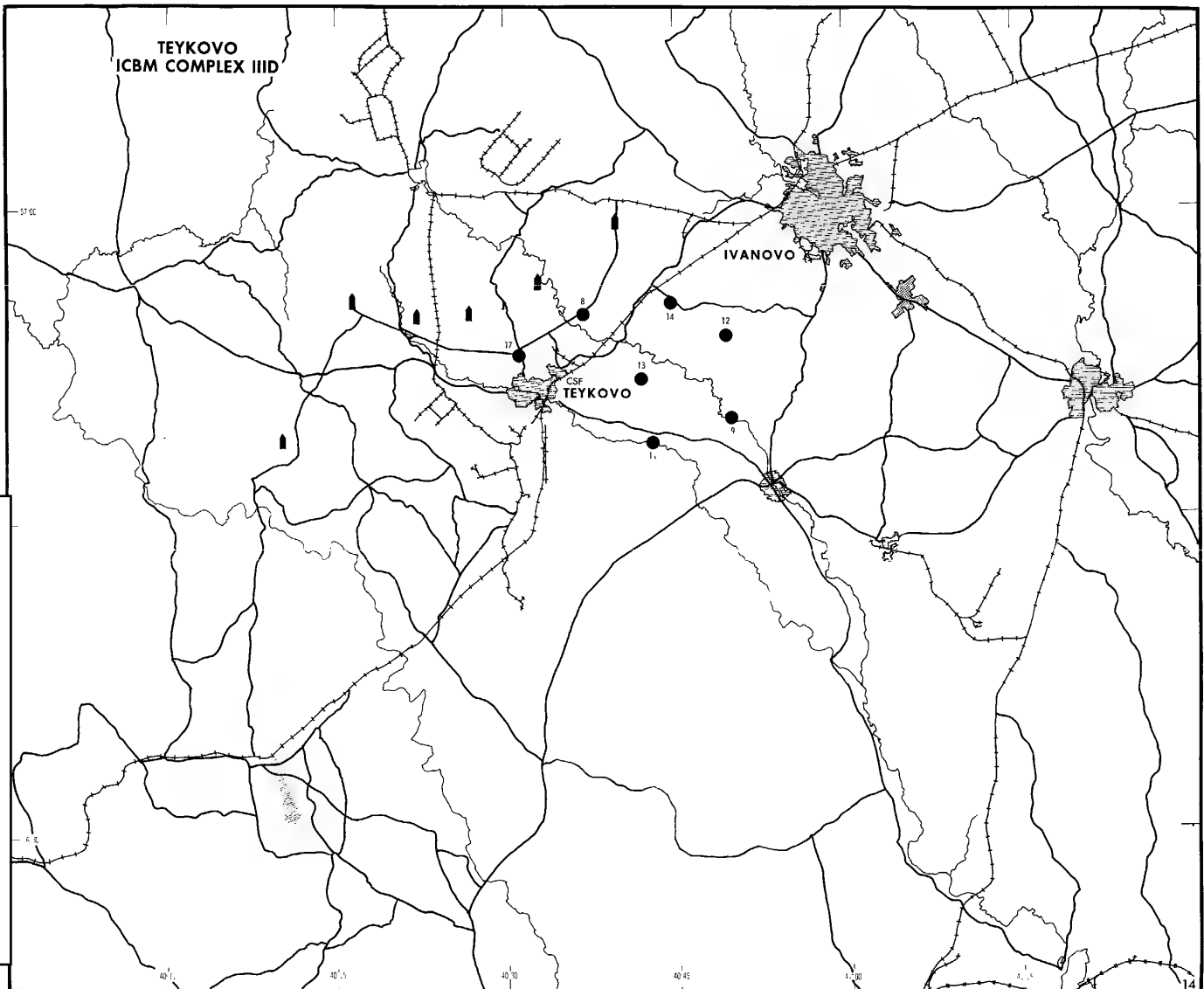
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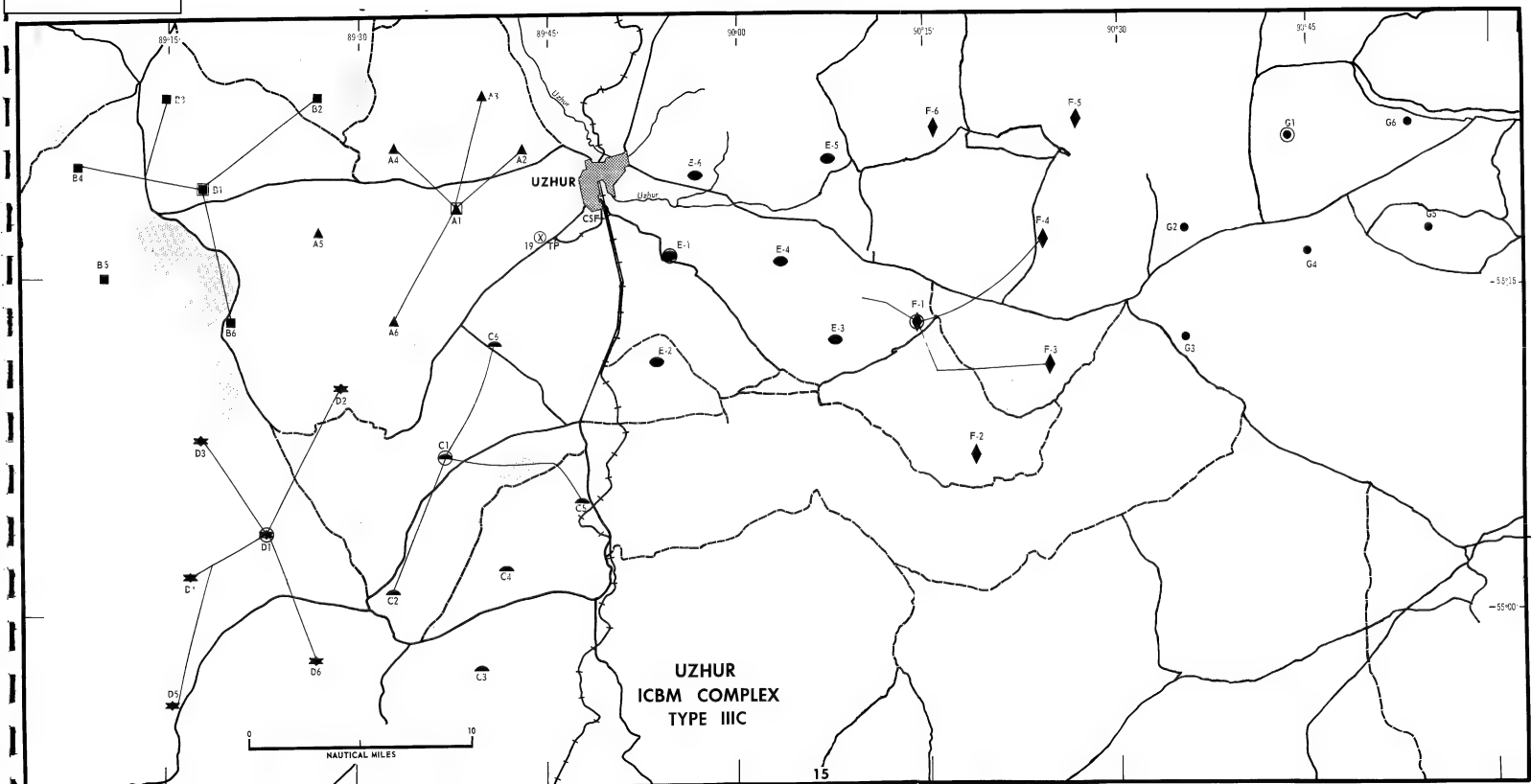
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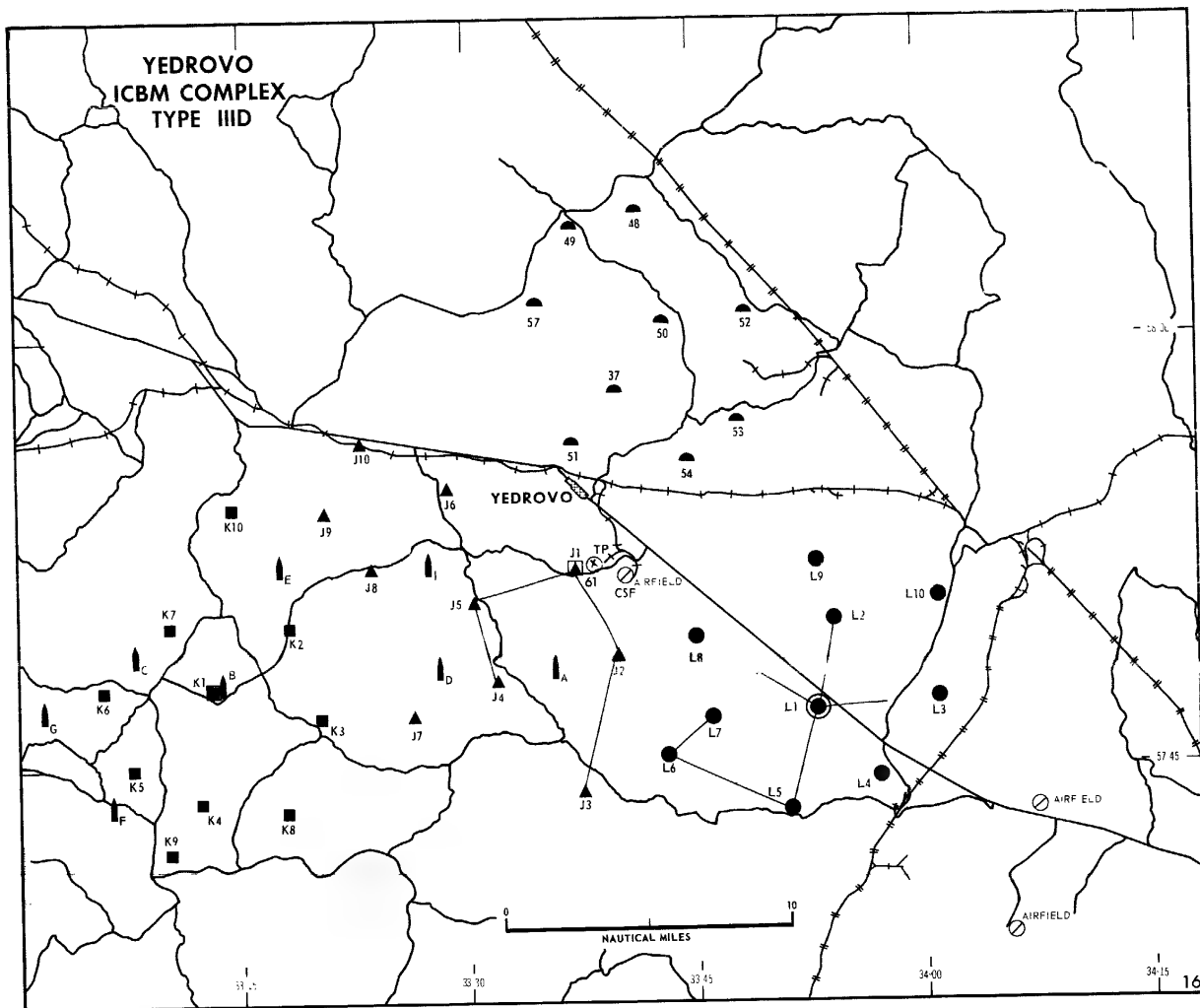
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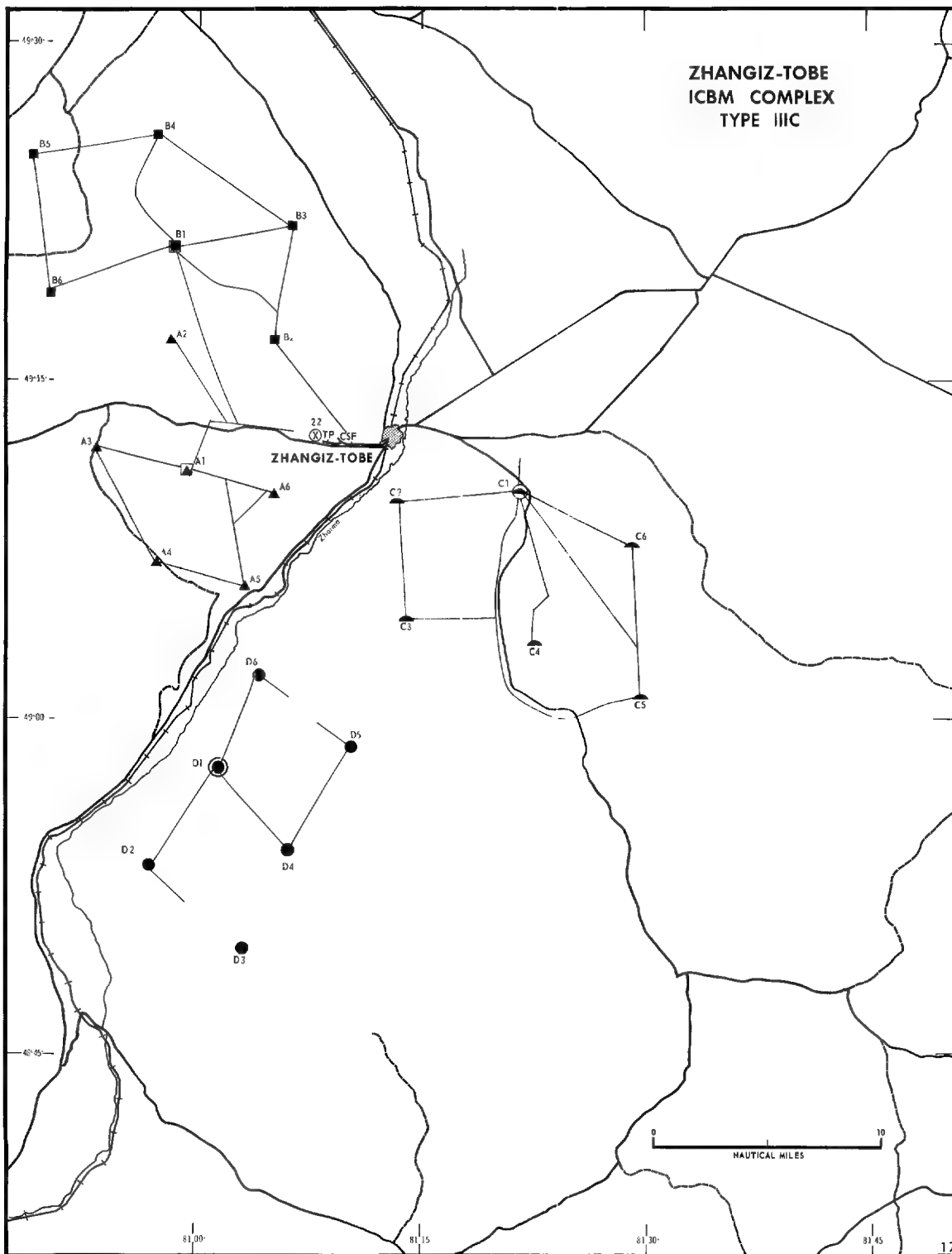
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IMAGERY ANALYSIS SERVICE

ALEYSK ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed
2	Confirmed
3	Confirmed
4	Abandoned
5	Confirmed
6	Confirmed
7	Confirmed
8	Confirmed
9	Confirmed
10	Confirmed
11	Confirmed
12	Confirmed
13	Confirmed
14	Confirmed
15	Confirmed
16	Confirmed
17	Confirmed
18	Confirmed
19	Confirmed
20	Confirmed

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## DOMBAROVSKIY ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed
2	Confirmed
3	Confirmed
4	Confirmed
5	Dropped
6	Confirmed
7	Confirmed
8	Confirmed
9	Confirmed
10	Confirmed
11	Confirmed
12	Confirmed
13	Confirmed
14	Confirmed
15	Confirmed
16	Confirmed
17	Confirmed
18	Confirmed
19	Confirmed
20	Dropped
21	Confirmed
22	Confirmed
23	Confirmed
24	Confirmed
25	Confirmed
26	Confirmed
27	Dropped
28	Confirmed
29	Confirmed
30	Confirmed
31	Confirmed
32	Confirmed
33	Confirmed
34	Confirmed
35	Confirmed
36	Confirmed
37	Confirmed
38	Confirmed
39	Confirmed
40	Confirmed

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## DROVYANAYA ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>	<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed (Type II-B Site )	36	Confirmed
2	Confirmed (Type III-A Site )	37	Confirmed
3	Confirmed (Type II-D Site)	38	Confirmed
4	Confirmed (Type II-D Site)	39	Confirmed
5	Confirmed (Type III-A Site)	40	Confirmed
6	Confirmed (Type III-A Site)	41	Confirmed
7	Confirmed	42	Confirmed
8	Confirmed	43	Confirmed
9	Confirmed	44	Confirmed
10	Confirmed	45	Confirmed
11	Confirmed	46	Confirmed
12	Confirmed	47	Confirmed
13	Confirmed	48	Confirmed
14	Confirmed	49	Confirmed
15	Confirmed	50	Confirmed
16	Confirmed	51	Confirmed
17	Dropped	52	Confirmed
18	Confirmed	53	Confirmed
19	Confirmed	54	Confirmed
20	Confirmed	55	Confirmed
21	Confirmed	56	Confirmed
22	Confirmed	57	Confirmed
23	Confirmed	58	Confirmed
24	Confirmed	59	Confirmed
25	Confirmed		
26	Confirmed		
27	Dropped		
28	Confirmed		
29	Confirmed		
30	Confirmed		
31	Confirmed		
32	Confirmed		
33	Confirmed		
34	Confirmed		
35	Confirmed		

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## IMAGERY ANALYSIS SERVICE

## GLADKAYA ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>	<u>TDI No.</u>	<u>Remarks</u>
1	Abandoned	38	Confirmed
2	Confirmed (Type II-D Site)	39	Confirmed
3	Confirmed (Type II-D Site)	40	Confirmed
4	Abandoned	41	Confirmed
5	Confirmed (Type III-A Site)	42	Confirmed
6	Abandoned	43	Confirmed
7	Confirmed	44	Confirmed
8	Confirmed	45	Confirmed
9	Confirmed	46	Dropped
10	Confirmed	47	Confirmed
11	Confirmed	48	Confirmed
12	Confirmed	49	Confirmed
13	Dropped	50	Confirmed
14	Confirmed	51	Confirmed
15	Confirmed	52	Confirmed
16	Confirmed	53	Confirmed
17	Confirmed	54	Confirmed
18	Confirmed	55	Confirmed
19	Confirmed	56	Reassigned to Confirmed Site at 56-23-40N 92-32-20E
20	Confirmed	57	Confirmed
21	Confirmed	58	Confirmed
22	Confirmed	59	Confirmed
23	Confirmed	60	Confirmed
24	Confirmed	61	Equates to 31
25	Confirmed	62	Confirmed
26	Confirmed	63	Confirmed
27	Confirmed	64	Confirmed
28	Confirmed	65	Confirmed
29	Confirmed	66	Confirmed
30	Confirmed	67	Confirmed
31	Confirmed	68	Confirmed
32	Dropped	69	Confirmed
33	Confirmed	70	Confirmed
34	Confirmed	71	Confirmed
35	Confirmed	72	Confirmed
36	Confirmed		
37	Dropped		

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## IMENI GASTELLO ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed
2	Confirmed
3	Confirmed
4	Confirmed
5	Confirmed
6	Confirmed
7	Confirmed
8	Confirmed
9	Confirmed
10	Confirmed
11	Confirmed
12	Confirmed
13	Confirmed
14	Confirmed
15	Confirmed
16	Confirmed
17	Confirmed
18	Confirmed
19	Confirmed
20	Confirmed
21	Confirmed
22	Confirmed
23	Confirmed
24	Confirmed
25	Confirmed
26	Confirmed
27	Confirmed
28	Confirmed
29	Confirmed

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## KARTALY ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed
2	Confirmed
3	Confirmed
4	Confirmed
5	Confirmed
6	Confirmed
7	Confirmed
8	Confirmed
9	Dropped
10	Confirmed
11	Confirmed
12	Confirmed
13	Confirmed
14	Confirmed
15	Confirmed
16	Dropped
17	Dropped
18	Confirmed
19	Confirmed
20	Confirmed
21	Confirmed
22	Dropped
23	Dropped
24	Confirmed
25	Confirmed
26	Confirmed
27	Confirmed
28	Confirmed
29	Confirmed
30	Confirmed
31	Confirmed
32	Confirmed
33	Haystack Removal
34	Confirmed
35	Haystack Removal
36	Confirmed

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## KOSTROMA ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>	<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed (Type II-B Site)	35	Confirmed
2	Confirmed (Type II-B Site)	36	Confirmed
3	Confirmed (Type II-B Site)	37	Confirmed
4	Confirmed (Type II-B Site)	38	Confirmed
5	Confirmed (Type III-A Site)	39	Probable
6	Confirmed (Type II-D Site)	40	Dropped
7	Confirmed (Type II-D Site)	41	Probable
8	Abandoned	42	Undetermined Ground Scarring
9	Confirmed	43	Probable
10	Confirmed	44	Undetermined Ground Scarring
11	Dropped	45	Possible
12	Confirmed	46	Suspect Site
13	Confirmed	47	Confirmed
14	Confirmed	48	Suspect
15	Confirmed		
16	Confirmed		
17	Confirmed		
18	Confirmed		
19	Confirmed		
20	Dropped		
21	Confirmed		
22	Confirmed		
23	Confirmed		
24	Confirmed		
25	Dropped		
26	Confirmed		
27	Dropped		
28	Confirmed		
29	Dropped		
30	Confirmed		
31	Confirmed		
32	Confirmed		
33	Confirmed		
34	Confirmed		

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## KOZELSK ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>	<u>TDI No.</u>	<u>Remarks</u>
1	Abandoned	37	Confirmed
2	Confirmed (Type II-C Site)	38	Confirmed
3	Confirmed (Type II-C Site)	39	Confirmed
4	Confirmed (Type II-C Site)	40	Confirmed
5	Confirmed (Type III-B Site)	41	Confirmed
6	Confirmed (Type III-B Site)	42	Dropped
7	Confirmed	43	Confirmed
8	Confirmed	44	Confirmed
9	Confirmed	45	Confirmed
10	Confirmed	46	Confirmed
11	Confirmed	47	Confirmed
12	Confirmed	48	Confirmed
13	Dropped	49	Confirmed
14	Dropped	50	Confirmed
15	Confirmed	51	Confirmed
16	Confirmed	52	Probable
17	Confirmed	53	Confirmed
18	Confirmed	54	Confirmed
19	Confirmed	55	Hardened Commo
20	Confirmed	56	Confirmed
21	Dropped	57	Probable
22	Confirmed	58	Probable
23	Confirmed	59	Probable
24	Dropped	60	Possible
25	Confirmed	61	Suspect
26	Confirmed		
27	Dropped		
28	Confirmed		
29	Confirmed		
30	Confirmed		
31	Dropped		
32	Confirmed		
33	Confirmed		
34	Confirmed		
35	Confirmed		
36	Confirmed		

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## OLOVYANNAYA ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>	<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed (Type III-A Site)	38	Confirmed
2	Confirmed (Type III-A Site)	39	Confirmed
3	Confirmed (Type III-A Site)	40	Confirmed
4	Confirmed	41	Confirmed
5	Confirmed	42	Confirmed
6	Confirmed	43	Confirmed
7	Confirmed	44	Confirmed
8	Confirmed	45	Confirmed
9	Confirmed	46	Confirmed
10	Confirmed	47	Confirmed
11	Confirmed	48	Confirmed
12	Confirmed	49	Confirmed
13	Confirmed	50	Confirmed
14	Confirmed	51	Confirmed
15	Confirmed	52	Confirmed
16	Confirmed	53	Dropped
17	Confirmed	54	Dropped
18	Confirmed	55	Confirmed
19	Confirmed	56	Confirmed
20	Confirmed	57	Confirmed
21	Confirmed	58	Confirmed
22	Confirmed	59	Confirmed
23	Confirmed	60	Confirmed
24	Confirmed	61	Confirmed
25	Confirmed	62	Confirmed
26	Confirmed	63	Confirmed
27	Confirmed	64	Confirmed
28	Confirmed	65	Confirmed
29	Confirmed	66	Confirmed
30	Confirmed	67	Confirmed
31	Confirmed	68	Confirmed
32	Confirmed	69	Confirmed
33	Confirmed	70	Confirmed
34	Confirmed	71	Confirmed
35	Confirmed	72	Confirmed
36	Confirmed	73	Confirmed
37	Confirmed	74	Confirmed
		75	Confirmed
		76	Confirmed
		77	Confirmed

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## OLOVYANNAYA ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>
78	Confirmed
79	Confirmed
80	Confirmed
81	Confirmed
82	Confirmed
83	Confirmed
84	Confirmed
85	Confirmed
86	Confirmed
87	Confirmed
88	Confirmed
89	Confirmed
90	Confirmed
91	Confirmed
92	Undetermined Ground Scarring
93	Confirmed
94	Confirmed
95	Probable
96	Probable
97	Probable

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## PERM ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>	<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed (Type II-B Site)	36	Confirmed
2	Confirmed (Type II-B Site)	37	Dropped
3	Confirmed (Type II-B Site)	38	Confirmed
4	Confirmed (Type III-A Site)	39	Confirmed
5	Confirmed (Type II-D Site)	40	Confirmed
6	Confirmed (Type II-D Site)	41	Confirmed
7	Confirmed	42	Confirmed
8	Confirmed	43	Confirmed
9	Dropped	44	Dropped
10	Confirmed	45	Confirmed
11	Confirmed	46	Confirmed
12	Confirmed	47	Confirmed
13	Confirmed	48	Confirmed
14	Dropped	49	Confirmed
15	Confirmed	50	Dropped
16	Confirmed	51	Confirmed
17	Confirmed	52	Confirmed
18	Confirmed	53	Dropped
19	Confirmed	54	Dropped
20	Confirmed	55	Dropped
21	Dropped	56	Dropped
22	Confirmed	57	Confirmed
23	Confirmed	58	Confirmed
24	Dropped	59	Confirmed
25	Confirmed	60	Confirmed
26	Dropped	61	Confirmed
27	Dropped		
28	Dropped		
29	Confirmed		
30	Confirmed		
31	Confirmed		
32	Confirmed		
33	Confirmed		
34	Confirmed		
35	Confirmed		

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## SVOBODNYY ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>	<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed (Type II-B Site)	34	Confirmed
2	Confirmed (Type II-B Site)	35	Dropped
3	Confirmed (Type II-B Site)	36	Confirmed
4	Confirmed (Type II-D Site)	37	Confirmed
5	Confirmed (Type II-D Site)	38	Confirmed
6	Confirmed (Type II-D Site)	39	Dropped
7	Confirmed (Type III-A Site)	40	Confirmed
8	Confirmed (Type II-D Site)	41	Confirmed
9	Confirmed	42	Confirmed
10	Confirmed	43	Confirmed
11	Confirmed	44	Dropped
12	Confirmed	45	Confirmed
13	Equates to Site 10	46	Confirmed
14	Confirmed	47	Confirmed
15	Confirmed	48	Dropped
16	Confirmed	49	Confirmed
17	Confirmed	50	Confirmed
18	Confirmed	51	Confirmed
19	Confirmed	52	Confirmed
20	Dropped	53	Confirmed
21	Confirmed	54	Confirmed
22	Confirmed	55	Probable
23	Confirmed	56	Confirmed
24	Confirmed	57	Confirmed
25	Confirmed	58	Confirmed
26	Confirmed	59	Confirmed
27	Confirmed	60	Suspect Site
28	Dropped	61	Probable
29	Confirmed	62	Probable
30	Confirmed	63	Confirmed
31	Confirmed	64	Confirmed
32	Confirmed	65	Confirmed
33	Equates to Site 19	66	Probable
		67	Probable Logging Activity
		68	Confirmed
		69	Confirmed
		70	Undetermined Ground Scarring
		71	Suspect Site
		72	Borrow Pit

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SVOBODNYY ICBM COMPLEX

TDI No.

Remarks

73	Confirmed
74	Undetermined Ground Scarring
75	Probable

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IMAGERY ANALYSIS SERVICE

## TATISHCHEVO ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>	<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed	43	Dropped
2	Confirmed	44	Equates to Site 56
3	Confirmed	45	Confirmed
4	Dropped	46	Dropped
5	Confirmed	47	Confirmed
6	Confirmed	48	Dropped
7	Confirmed	49	Dropped
8	Confirmed	50	Dropped
9	Confirmed	51	Confirmed
10	Confirmed	52	Dropped
11	Confirmed	53	Dropped
12	Confirmed	54	Confirmed
13	Confirmed	55	Equates to Site 37
14	Confirmed	56	Confirmed
15	Confirmed	57	Confirmed
16	Confirmed	58	Confirmed
17	Confirmed	59	Confirmed
18	Dropped	60	Dropped
19	Confirmed	61	Confirmed
20	Confirmed	62	Confirmed
21	Confirmed	63	Confirmed
22	Confirmed	64	Dropped
23	Dropped	65	Confirmed
24	Confirmed	66	Confirmed
25	Confirmed	67	Confirmed
26	Confirmed	68	Dropped
27	Confirmed	69	Dropped
28	Confirmed	70	Dropped
29	Confirmed	71	Confirmed
30	Confirmed	72	Confirmed
31	Dropped	73	Confirmed
32	Confirmed	74	Confirmed
33	Dropped	75	Confirmed
34	Dropped	76	Confirmed
35	Confirmed	77	Confirmed
36	Confirmed	78	Dropped
37	Confirmed	79	Dropped
38	Confirmed	80	Confirmed
39	Confirmed	81	Confirmed
40	Confirmed	82	Confirmed
41	Confirmed	83	Confirmed
42	Confirmed	84	Confirmed

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## TATISHCHEVO ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>	<u>TDI No.</u>	<u>Remarks</u>
85	Confirmed	125	Confirmed
86	Confirmed	126	Confirmed
87	Dropped	127	Confirmed
88	Confirmed	128	Confirmed
89	Confirmed	129	Confirmed
90	Confirmed	130	Dropped
91	Confirmed	131	Confirmed
92	Confirmed	132	Confirmed
93	Confirmed	133	Confirmed
93	Confirmed	134	Confirmed
94	Confirmed	135	Dropped
95	Confirmed	136	Confirmed
96	Confirmed	137	Confirmed
97	Confirmed	138	Confirmed
98	Confirmed	139	Confirmed
99	Confirmed	140	Confirmed
100	Confirmed	141	Confirmed
101	Confirmed	142	Unidentified Construction
102	Confirmed	143	Confirmed
103	Confirmed	144	Confirmed
104	Confirmed	145	Dropped
105	Abandoned	146	Confirmed
106	Abandoned	147	Confirmed
107	Dropped	148	Confirmed
108	Confirmed	149	Probable
109	Confirmed	150	Confirmed
110	Confirmed	151	Confirmed
111	Confirmed	152	Confirmed
112	Confirmed	153	Confirmed
113	Dropped		
114	Dropped		
115	Confirmed		
116	Confirmed		
117	Confirmed		
118	Confirmed		
119	Confirmed		
120	Confirmed		
121	Confirmed		
122	Confirmed		
123	Confirmed		
124	Confirmed		

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TEYKOVO ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed (Type II-B Site)
2	Confirmed (Type II-B Site)
3	Confirmed (Type II-B Site)
4	Confirmed (Type II-D Site)
5	Confirmed (Type II-D Site)
6	Confirmed (Type II-D Site)
7	Abandoned
8	Confirmed
9	Confirmed
10	Borrow Pit
11	Confirmed
12	Probable
13	Possible
14	Possible
15	Agricultural Activity
16	Possible Agricultural Activity
17	Probable

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## IMAGERY ANALYSIS SERVICE

## UZHUR ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>	<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed	41	Confirmed
2	Confirmed	42	Confirmed
3	Confirmed	43	Confirmed
4	Confirmed		
5	Confirmed		
6	Confirmed		
7	Confirmed		
8	Confirmed		
9	Confirmed		
10	Confirmed		
11	Confirmed		
12	Confirmed		
13	Confirmed		
14	Confirmed		
15	Confirmed		
16	Confirmed		
17	Confirmed		
18	Confirmed		
19	Confirmed		
20	Confirmed		
21	Confirmed		
22	Confirmed		
23	Confirmed		
24	Confirmed		
25	Confirmed		
26	Confirmed		
27	Confirmed		
28	Confirmed		
29	Confirmed		
30	Confirmed		
30	Confirmed		
31	Confirmed		
32	Confirmed		
33	Confirmed		
34	Confirmed		
35	Confirmed		
36	Confirmed		
37	Confirmed		
38	Confirmed		
39	Confirmed		
40	Confirmed		

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## YEDROVO ICBM COMPLEX

<u>TDI No.</u>	<u>Remarks</u>	<u>TDI No.</u>	<u>Remarks</u>
1	Confirmed (Type II-B Site)	34	Confirmed
2	Confirmed (Type II-B Site)	35	Confirmed
3	Confirmed (Type III-A Site)	36	Confirmed
4	Confirmed (Type II-D Site)	37	Confirmed
5	Confirmed (Type II-D Site)	38	Confirmed
6	Confirmed (Type II-D Site)	39	Confirmed
7	Confirmed (Type II-D Site)	40	Confirmed
8	Confirmed (Type III-A Site)	41	Confirmed
9	Abandoned	42	Confirmed
10	Confirmed	43	Confirmed
11	Confirmed	44	Confirmed
12	Confirmed	45	Confirmed
13	Confirmed	46	Confirmed
14	Confirmed	47	Confirmed
15	Confirmed	48	Confirmed
16	Confirmed	49	Confirmed
17	Dropped	50	Confirmed
18	Dropped	51	Confirmed
19	Dropped	52	Confirmed
20	Confirmed	53	Confirmed
21	Dropped	54	Confirmed
22	Dropped	55	Probable Buried Tank
23	Confirmed	56	Trail
24	Confirmed	57	Confirmed
25	Confirmed	58	Undetermined Activity
26	Equated to Site 20	59	Track Activity
27	Confirmed	60	Undetermined Ground
28	Confirmed		Scarring
29	Dropped	61	Probable
30	Confirmed		
31	Confirmed		
32	Confirmed		
33	Confirmed		

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## ZHANGIZ TOBE ICBM COMPLEX

TDI No.                      Remarks

1	Confirmed
2	Confirmed
3	Confirmed
4	Confirmed
5	Confirmed
6	Confirmed
7	Confirmed
8	Confirmed
9	Confirmed
10	Confirmed
11	Confirmed
12	Confirmed
13	Confirmed
14	Confirmed
15	Confirmed
16	Confirmed
17	Confirmed
18	Confirmed
19	Confirmed
20	Confirmed
21	Confirmed
22	Confirmed
23	Confirmed
24	Confirmed
25	Dropped
26	Confirmed

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